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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/561,571	12/21/2005	Meng Hsin Chen	21406YP	5907		
210 MEDCK AND	7590 09/25/2007		EXAMINER			
MERCK AND CO., INC P O BOX 2000			BALASUBRAMANIAN	BALASUBRAMANIAN, VENKATARAMAN		
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER		
			1624			
			MAIL DATE	DELIVERY MODE		
			09/25/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	on No.	Applicant(s)					
Office Action Summary		10/561,57	·1	CHEN ET AL.					
		Examiner		Art Unit					
		/Venkatara Balasubra		1624					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
WHICHE - Extensions after SIX (6 - If NO perio - Failure to r Any reply r	TENED STATUTORY PERIOD FOR REIVER IS LONGER, FROM THE MAILING of time may be available under the provisions of 37 CFR 3) MONTHS from the mailing date of this communication. If the from the second of the communication of the from the second of the communication of the from	DATE OF THE R 1.136(à). In no even in the control of the control o	IIS COMMUNICATION int, however, may a reply be time Il expire SIX (6) MONTHS from ication to become ABANDONEI	N. nely filed the mailing date of this c D (35 U.S.C. § 133).					
Status									
1)⊠ Res	sponsive to communication(s) filed on 21	1 December 20	<u>005</u> .						
•	☐ This action is <b>FINAL</b> . 2b)☐ This action is non-final.								
<del>,</del>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of	of Claims								
4a) 5)☐ Cla 6)☐ Cla 7)☐ Cla	im(s) <u>1-15</u> is/are pending in the application of the above claim(s) is/are without im(s) is/are allowed.  im(s) is/are rejected.  im(s) is/are objected to.  im(s) <u>1-15</u> are subject to restriction and/	drawn from cor							
Application F	Papers								
9) <u></u> The	specification is objected to by the Exam	niner.							
10) <u></u> The	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	lacement drawing sheet(s) including the corr oath or declaration is objected to by the				• •				
Priority unde	r 35 U.S.C. § 119								
a) A 1 2 3	Certified copies of the priority docume Certified copies of the priority docume	ents have been ents have been priority docume reau (PCT Rule	n received. n received in Application nts have been receive e 17.2(a)).	on No ed in this National	Stage				
Attachment(s)									
	References Cited (PTO-892)		4) Interview Summary	(PTO-413)					
2) Notice of D 3) Information	Oraftsperson's Patent Drawing Review (PTO-948) In Disclosure Statement(s) (PTO/SB/08) Is Mail Date		Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te					

## **DETAILED ACTION**

Claims 1-15 are pending.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-15, drawn to compound of formula I wherein M=CH,  $M_1$ =CH and  $M_2$ =CH, composition and method of use.

Group II claims 1-15, drawn to compound of formula I wherein M=N,  $M_1$ =CH and  $M_2$ =CH, composition and method of use.

Group II claims 1 and 8-15, drawn to compound of formula I wherein M,  $M_1$  and  $M_2$  choice is other than those provided for in Group I and Group II, composition and method of use.

The inventions listed as Groups I, II and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Where there is lack of unity the requirement for restriction is proper- See MPEP 803.02. The requirement for unity of invention is two-fold: (1) common utility and (2) sharing a substantial structural feature disclosed as being essential to the utility. Both these conditions are to be met with. Instant claims do not meet both these conditions.

Art Unit: 1624

Invention I, II and III are independent and distinct from each other because they are directed to structurally dissimilar compounds that lack common core, namely, benzimidazole versus imidazo-pyridine versus various heterocyclic cores based on the choice of each M, M<sub>1</sub> and M<sub>2</sub>. Consequently, the groups require separate prior art searches. They can be made and used independently. Art which may render obvious or anticipate one of the groups would not necessarily do the same for the other group. For example prior art cited in the International Search Report and the Information Disclosure Statement may not be applicable to all the above groups. Each can support a patent as the compounds of each group are capable of being utilized alone not in combination with other members listed in the Markush group.

Except for the imidazole group, every ring and substituents in the core of compound of formula I is varied and it cannot be said that imidazole group essentially contributes to the utility recited in the claims. Thus, the common structural feature essential for the said utility is not met with.

In addition, common utility requirement is also not met with as evident from the claims that these compounds can be used for ocular hypertension or glaucoma, macular edema, macular degeneration, increasing retinal and optic nerve head blood velocity, increasing retinal and optic nerve oxygen tension, and/or a neuroprotective effect, preventing repolarization or hyperpolarization of a mammalian cell treating Alzheimer's Disease, depression, cognitive disorders, and/or arrhythmia disorders. In addition, prior art cited in the Information Disclosure Statement and International search

511/0011(1011(d1)1501: 10/001;01

Art Unit: 1624

report clearly state other uses for the instant compounds. Thus, both the criteria set forth for unity of invention is not met with.

In view of distinct nature of each invention, the restriction requirement is set forth in writing.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may

Art Unit: 1624

be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

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Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

Art Unit: 1624

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication from the examiner should be addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571) 272-0662. The examiner can normally be reached on Monday through Thursday from 8.00 AM to 6.00 PM. The Supervisory Patent Examiner (SPE) of the art unit 1624 is James O. Wilson, whose telephone number is (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned (571) 273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAG. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-2 17-9197 (toll-free).

Art Unit: 1624

Verhenteramen Balusuhramahur Venkataraman Balasubramanian

9/19/2007